

ABSTRACT OF THE DISCLOSURE

A composite system capable of protecting a substrate from a jet fire including a lower layer of an active fire protective material and an upper layer of a fire protective material. The upper layer forms an open cell matrix when exposed to a jet fire to permit passage of gasses from the lower layer to ambient. The upper layer comprises a fill of refractory material and protects the system during initial exposure to a hyperthermal condition. The upper layer swells on exposure to hyperthermal conditions, but swells less than the lower layer.